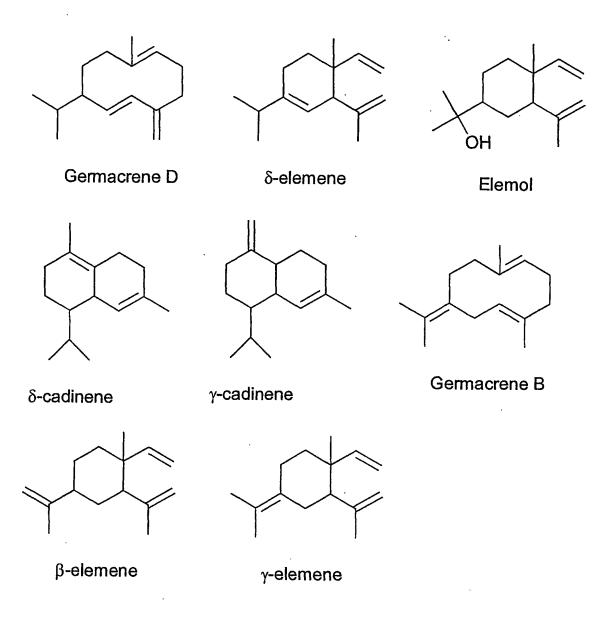
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FIGURE 2A

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MOONCHA CCTTOTOCIC GGGGAGATCA AAAAATGCTA GALACAGCET tcattcatge tetglaceag eccatecaca aggggtgae aaggeteaae geaaggage acattttatt tittgaacag aatgattgee atageaaaga cctttbaat tecocaaat tagattteaa cttattacaa aagttocacc agaggaget aigtbaaatc acaaggeget gbaaagatte gaattttoca CTITICCAS ASACASATS GIASAGISCI ACTITIGSI ACTIGGGFS TACTITSAGC CCCAATAICT SCTISCIASS ASSATSCIAA TOGNAGACTA TATOCAAGIT GCATTAGTAA CCGCGGGTTA CAAANTGCTT GCAACCTCTT CCTTTGTTGG CATGGGAGAT TTGGCAACCA AAGAGGCCTT TOXITOGGIG ICAANIGATC CITTAATIGI ICAAGCIGCA ICAGIGAIAG GCAGACICAA GGAIGACATI GITGGCCACA AGITIGAGCA AAAGAGAGG GIGGAGGCAI AANIAAATIC AAXAGTIGAT TIAAAGTIGG GGIAGTGAAC OGGGALTICIT ACCATIAAGA GATALTCTIG CTAAAAAGCA AITAATICAA CASTICITO ccaaggtat toccatgatt tecattateg atgacateta coatgierae ggtacettog aagaactigt feterteaet gatocaattg agagtogga cacotogicot cooctoticaa atoctacaot aaocaacato otacaacada boaababoct attattoaat tooataaaca aottacacat tentogramo ACCAGGATGA TOCHTIECA ATAMATAAT TTAGCCAGTE OTFCTICATC TIGITITIT TTEGTTFCTC TTTCCTTFCT AAATATAAAA TTAIAATTAA TEGGCAAAAA GANGCANGGA BIGAMALCIA AMAIMGGCCA AGIGIGIAGG TICAFCICIA GITIFICICI TIAAATIAAT ICTICAACCC AGAMAAAAA CATGCAACIA BAGGCAGCIG CIGANCALIC TICACAGATO CIGAACCICO ICGACAAAI CCAACGCIIA GGCGIGICII ACCAITITGA AACIGAGAIC IACOGCACAT ATACADALCC TOTGATTACC ATTITGATGA TCTCCACACT GCTGCTCTCT CTTTTCGGTT ACTTAGACAA CAAGGATATC hobitacaco cabalgatat actabacoda geactabett ttaccateae telacticog tecoentise eclaetials exetectite AGAICTIATI GCGTAGACTA TGCAAAATCT TCAATGAAAA TTTTGGTTAG AGCATACTTC GAAGAAGCCA AATGGTTTCA CCAAGGATAT ACATCAACGC AGAGTGCCTC TGCCCAATCA AGGTCCCAAT GCCTCTTCTT GCGCGAGTTC TCAATCTTGC ACGAGTGCTT TATGATAAT NAGETITOCC ANTACCANCT GITACANCCA CCACTAGIAI TOANCCACCA CAIGINACGC GICGCICIGC ANAITATCAT CCTAGCAITT THECHOOC PACTOTICES AFSCEATESA ASAASASTE ATTAACATSS LACAACAACA ACSACTICAT CACCTSALAC ALAGSTSAS OATCAGTGCC TTGGATCAAC TTCCAGAGTA TATGAAACTA TGTTATCAAG CACTTTTGGA TGTTTATAGT ATGATTGATG AAGAGATGGC AGACGGAIAC ACTCATCCTG GAACCAAGGT CGAGAACTTT GTAACCTCAG TGCTTATCGA TTCTATGCCA ATCAATTAGA AAATGTAACA TONINIGITE GACARATICA AGAACAGCAA AGGTGAGTIT CAAGAATECA TAATCAGCGA TGTGCAAGGA ATGTFAAGTT TGTATGAAGC THE PROPERTY WITH THE PROPERTY OF THE PROPERTY 501 201 301 401 601 0.1 801

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1	MQLPCAQALP	IPTVTTTTSI	EPPHVTRRSA	NYHPSIWGDH	FLAYSSDAME
51	EEVINMEQQQ	RLHHLKQKVR	KMLEAAAEQS	SOMLNLVDKI	QRLGVSYHFE
101	TEIETALRHI	YKTCDYHFDD	LHTAALSFRL	LRQQGYPVSC	DMFDKFKNSK
151	GEFQESIISD	VQGMLSLYEA	TCLRIHGEDI	LDEALAFTIT	QLRSALPNLS
201	TPFKEQIIHA	Lnopihkglt	RLNARSHILF	FEQNDCHSKD	LLNFAKLDFN
251	LLQKLHQREL	CEITRWWKDL	nfaktlpfar	DRMVECYFWI	LGVYFEPQYL
301	LARRMLTKVI	AMISIIDDIY	DVYGTLEELV	LFTDAIERWE	ISALDQLPEY
351	MKLCYQALLD	VYSMIDEEMA	KQGRSYCVDY	AKSSMKILVR	AYFEEAKWFH
401	QGYVPTMEEY	MQVALVTAGY	KMLATSSFVG	MGDLATKEAF	DWVSNDPLIV
451	QAASVIGRLK	DDIVGHKFEQ	KRGHVASAVE	CYSKQHGTTE	EEAIIELDKQ
501	VTHSWKDINA	ECLCPIKVPM	PLLARVLNLA	RVLYVIYQDE	DGYTHPGTKV
551	ENFVTSVLID	SMPIN*			

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>EST72838 (A. deliciosa variant of multifunctional germacrene D synthase)

10/540759 Rec'd PCT/PTO 24 JUN 2005

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>EST 80968 (A. deliciosa variant of multifunctional germacrene D synthase)

CTAAAATAGGCCAAGTGTAGGTTCATCTCTAGTTTTTCTCTTGAAAACTAAAATAGGCCAAGTG ACTCGTCGATCTGCAAATTATCATCCTAGCATTTGGGGAGATCATTTCCTCGCCTACTCTTCCGAT GCTATGGAAGAAGAGGATATTAACATGGAACAACAACAACGACTTCATCACCTGAAACAAAAGGTG AGAAAAATGCTAGAGGCAGCTGCTAAACAATCTTCACAGATGCTGAACCTCGTCGACAAAATCCAA CGCTTAGGCGTGTCTTACCATTTTGAAACTGAGATCGAAACAGCTTTACGGCACATATACAAAACC TATCCAGTTTCTTGTGACATGTTCGGCAAATTCAAGAACTGCAAAGGTGAGTTTCAAGAATCCATA ATCAGCGATGTGCGAGGAATGTTAAGCTTGTATGAAGCTACATGTCTAAGGATACGCGGAGAAGAT ATACTAGACGAAGCACTAGCTTTTACCACGACTCAGCTTCAGTCTGCATTGCCCAACTTAAGCACT CCTATCAAGGAACAAATCATTCATGCTCTGAACCAGCCCATCCACAAGTGGTTGACAAGGCTCGAC GCAAGGCGCCACATTTTATTCTTCGAACAGAATGATTGCCATGGCAAAGACCTTTTGAATTTCGCA AAATTAGATTTCAACTCGTTACAAAAGTTGCACCAGAGGGAGCTATGTGAAATCACAAGGTGGTGG AAAGATCTGGATTTTGCCAAGAAACTACCTTTTGCCAGAGACAGAATGGTAGAGTGCTACTTCTGG ATACTTGGGGTGTACTTTGAGCCCCAATATTTGCGTGCTAGGAGGATGCTAACCAAGGTGATTGCC TTGACTTCCATTATCGATGACATCTACGATGTCTACGGTACCTTGGAAGAACTTGTTCTCTTCACT GATGCAATTGAGAGGTGGGAAATTAGTGCCTTGGATAACCTTCCAGATTATATGAAACTATGTTAT GTAGACTATGCAAAATCTTCAATGAAAATTTTGGTTAGAGCATACTTCGAAGAAGCCAAATGGTTT CACCAAGGATATGTTCCAACTATGGAAGAGTATATGCAAGTTGCATTAGTAACCGCGGGTTACAAA ATGCTTGCAACCTCTTCCTTTGTTGGCATGGGAGAGTTGGCAACCAAAGAGGCCTTTGATTGGGTG TCAAATGATCCTTTAATTGTTCAAGCTGCATCAGTGATAGGCAGACTCAAGGATGACATTGTTGGC CACAAGTTTGAGCAAAAGAGAGGGCACGTGGCGTCGGCTGTCGAATGCTACAGTAAGCAACATGGT ACAATAGAGGAAGAGGCTATTATTGAATTGGATAAACAAGTTACACATTCATGGAAAGACATCAAC GCAGAGTGCCTCTGCCCAATCAAGGTCCCAATGCCTCTTCTTGCGCGAGTTCTCAATCTTGCACGA GTGCTTTATGTTATATACCAGGATGAAGACGGCTACACTCATTCTGGAACCAAGGTCAAGAACTTT GCAACCTCAGTGCTTATCGATTCTATGCCAATCAATTAGAAAATGTAACAAGACACTGAAGTGGAG

>EST 304951 (A. chinensis variant of multifunctional germacrene D synthase)

>EST 82293 (Vaccinium corymbosum variant of multifunctional germacrene D sythase)

FIGURE 5 (continued)

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>72838

MQLPCAQALPIPTVTTNTSIEPPHVTRRSANYHPSIWGDHFLAYSSDAMEEEDINMEQQQRLHHLK QKVRKMLEAAAEQSSQMLNLVDKIQRLGVSYHFETEIETALRHIYKTCDYHFDDLHTAALSFRLLR QQGYPVSCDMFDKFKNSKGEFQESIISDVRGMLSLYEATCLMIHGEDILDEALAFTITQLRSALPN LSTPFKEQIIHALNQPIHKGLTRLNARSHILFFEQNDCHSKDLLNFAKLDFNLLQKLHQRELCEIT

R~~~~~~EISALDQLPEYMKLCYQALLDVYSMIDEEMAKQGRSYCVDYAKSSMKILVRAYFEEA

KWFHQGYVPTMEEYMQVALVTAGYKMLATSSFVGMGELATKEAFDWVSNDPLIVQAASVIGRLKDD IVGHKFEQKRGHVASAVECYSKQHGTTEEEAIIELYKQVTHSWKDMNAECLCPTKVPMPLLARVLN LARVLYVIYODADGYTHSGTKVKNFVTSVLIDSMPIN

>80968

MQLPCAQALPIPTVTTNTSIEPPHVTRRSANYHPSIWGDHFLAYSSDAMEEEDINMEQQQRLHHLK QKVRKMLEAAAKQSSQMLNLVDKIQRLGVSYHFETEIETALRHIYKTCDYHFDDLHTAALSFRLLR QQGYPVSCDMFGKFKNCKGEFQESIISDVRGMLSLYEATCLRIRGEDILDEALAFTTTQLQSALPN LSTPIKEQIIHALNQPIHKWLTRLDARRHILFFEQNDCHGKDLLNFAKLDFNSLQKLHQRELCEIT RWWKDLDFAKKLPFARDRMVECYFWILGVYFEPQYLRARRMLTKVIALTSIIDDIYDVYGTLEELV LFTDAIERWEISALDNLPDYMKLCYQALLDVYSMIDEEMAKQGRSYCVDYAKSSMKILVRAYFEEA KWFHQGYVPTMEEYMQVALVTAGYKMLATSSFVGMGELATKEAFDWVSNDPLIVQAASVIGRLKDD IVGHKFEQKRGHVASAVECYSKQHGTIEEEAIIELDKQVTHSWKDINAECLCPIKVPMPLLARVLN LARVLYVIYODEDGYTHSGTKVKNFATSVLIDSMPIN

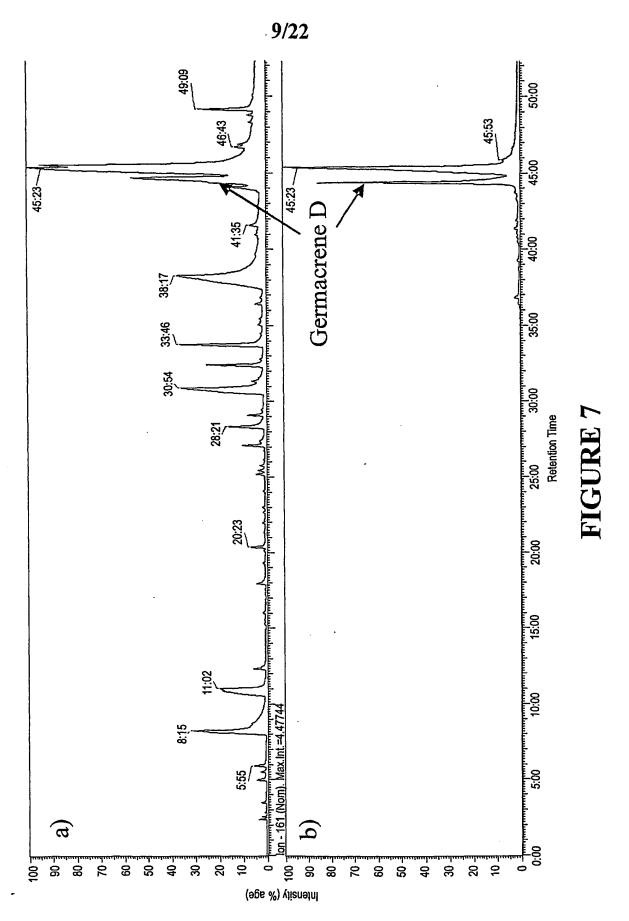
>304951

YCVDYAKSSMKSLVRAYFEEAKWFHQGYVPTMEEYMQVAIVTGAYKILATTSFVGMGELATKEVFD WVSNDPLIVQAASIVSRLTDDIVGHKFEQKRGHVASAVECYMKQHGTTEEEAIVELYKQVTNAWKD MNAECLFPTKVPMPLLVRVLNLARVINVLYKDEDGYTHSRTKVKKFVTSVLVDFVPIS

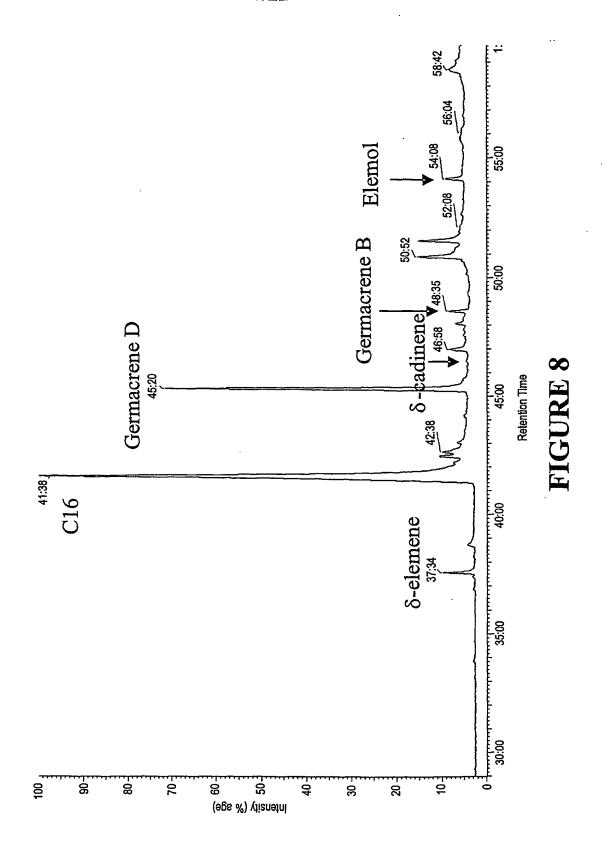
>82293

EAKWFHEGYVPSMEEYMRVALVTGAYKMLATTSFVGMGDLVTKEAFEWVSSDPLIVEAASVICRLM DDMAGHKFEQERGHVASAVECYMKQHGATQEVVLLEFKKRVTNAWKDMNAECLRPTAVPMPLLTRV LNLARVINVIYKDEDGYTHSGTKLKNFVISVLIDSVPIN

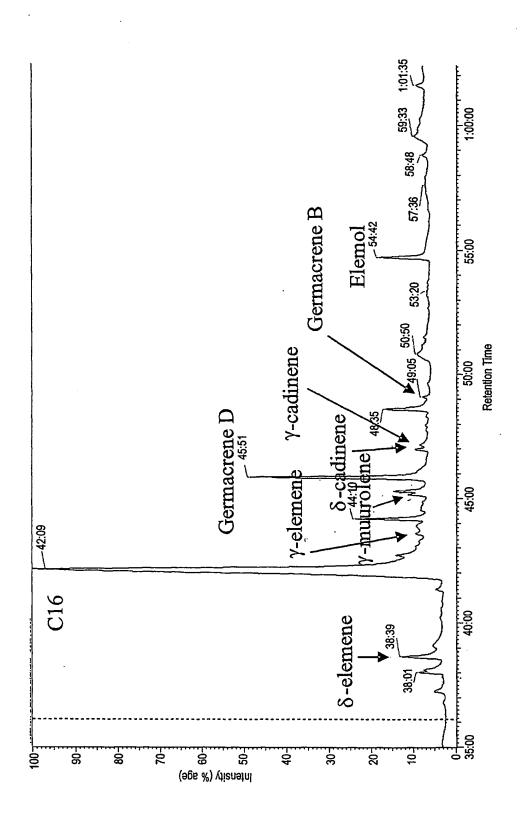
WO 2004/058814

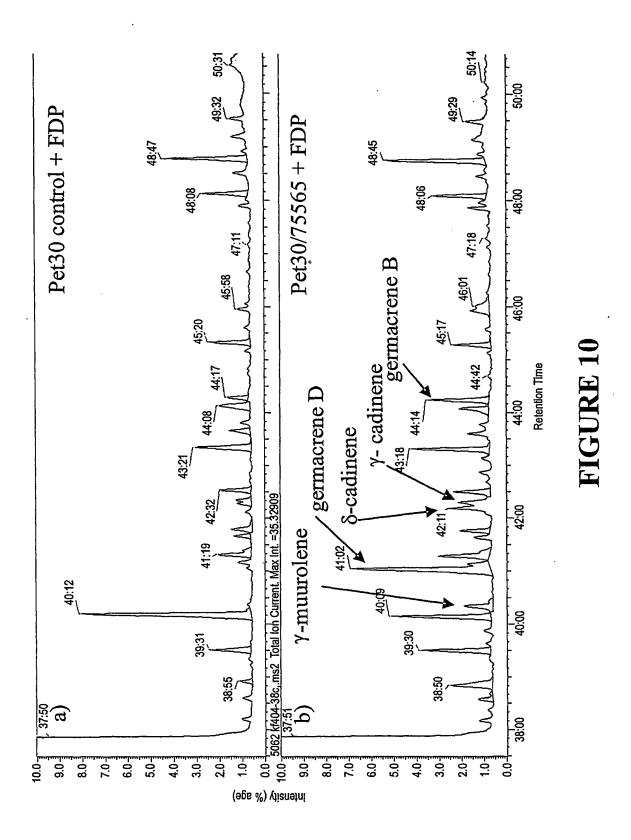


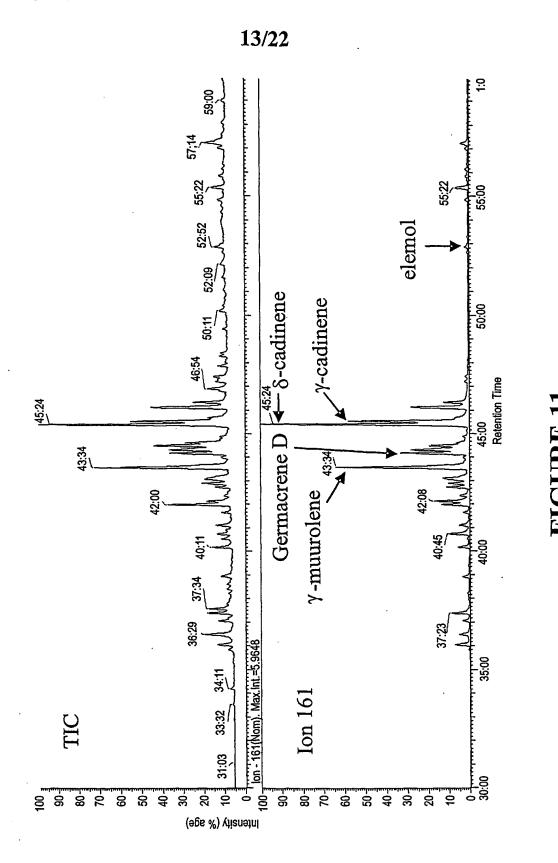
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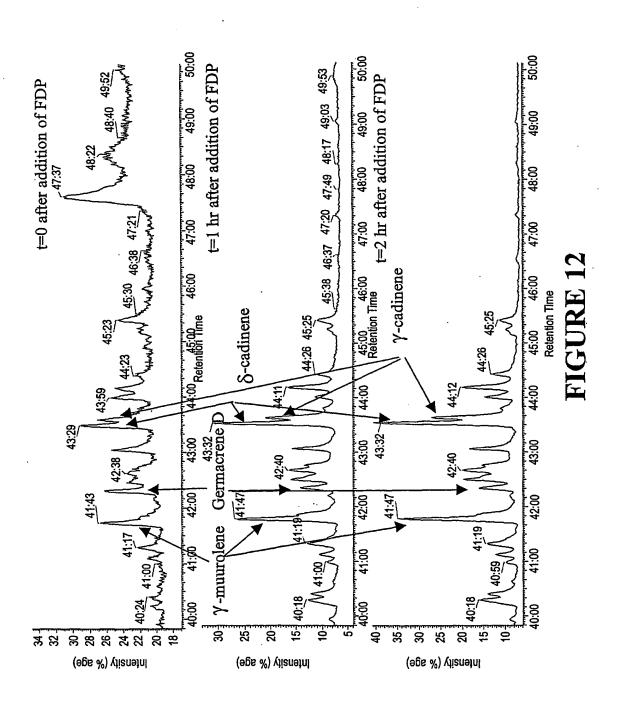
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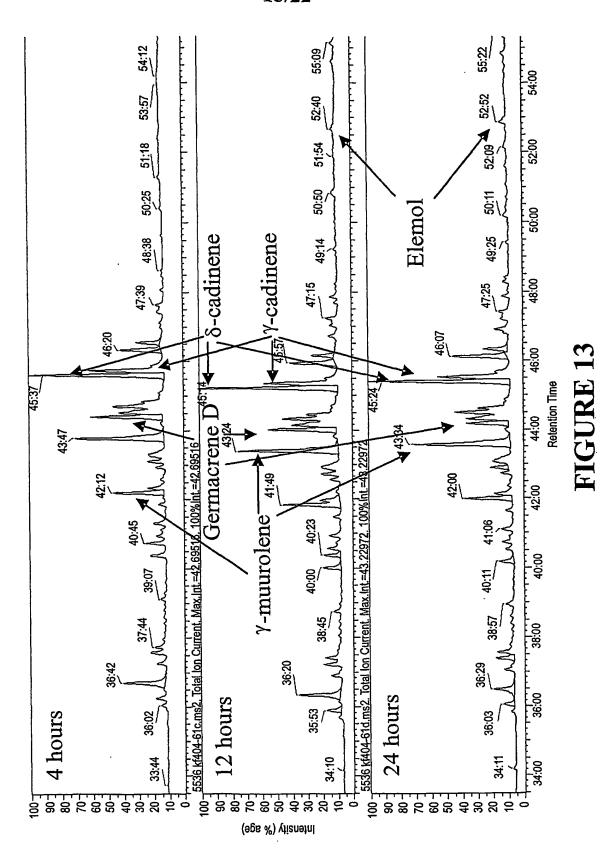


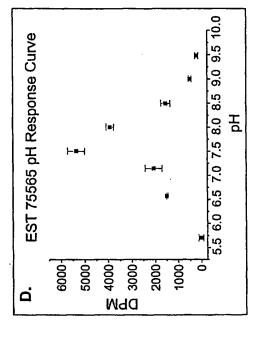


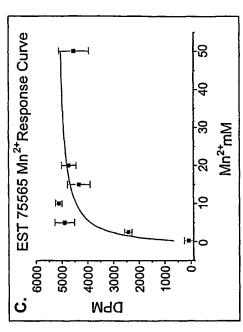


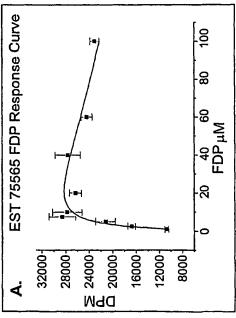
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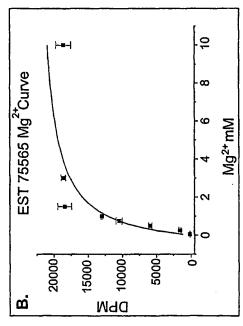


FIGURE 14

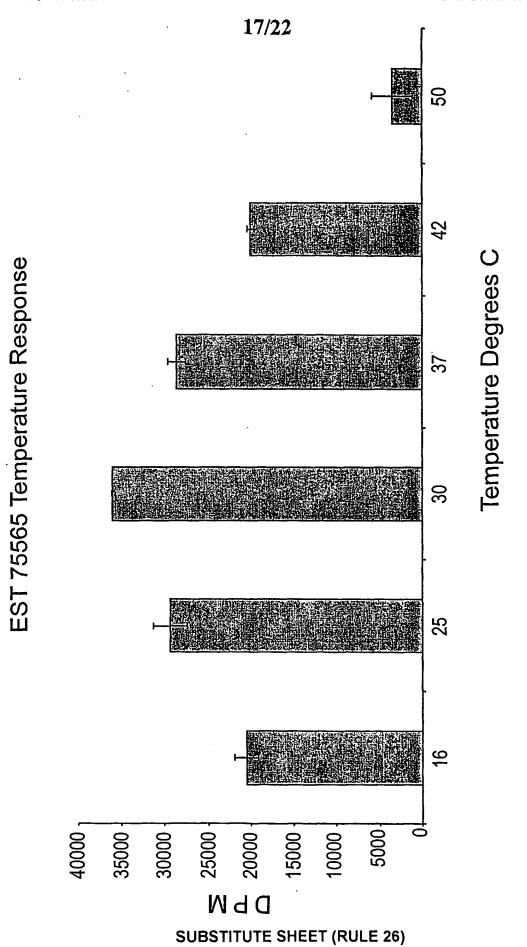
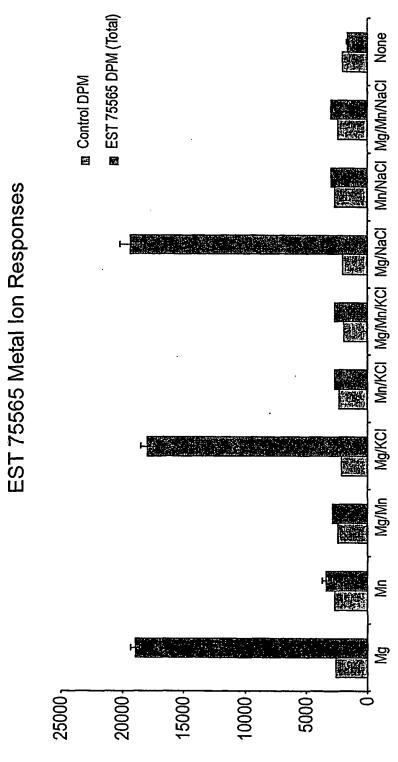
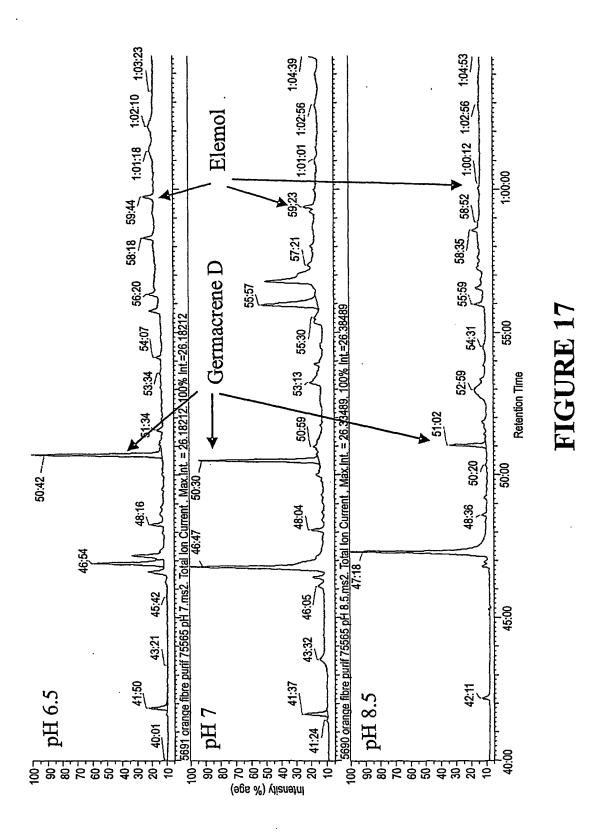


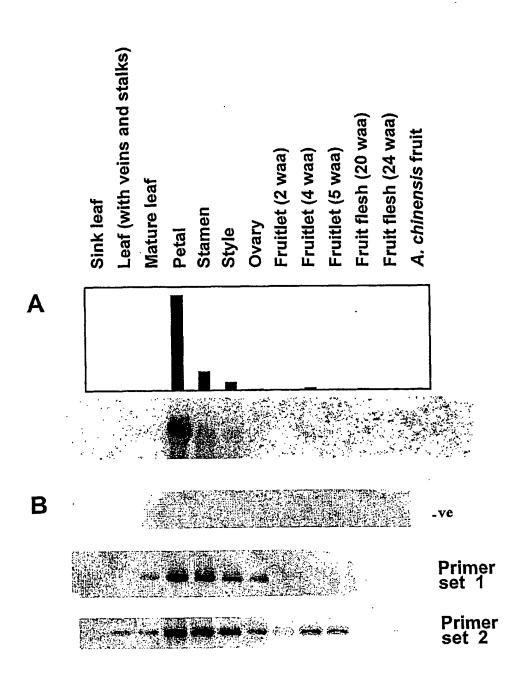
FIGURE 15



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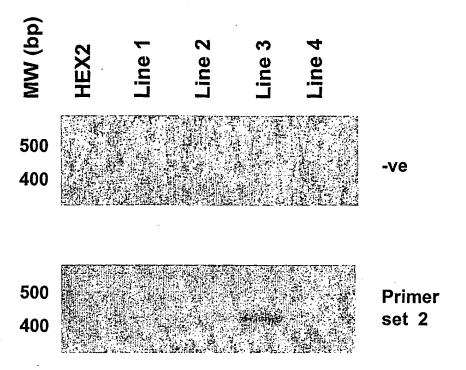
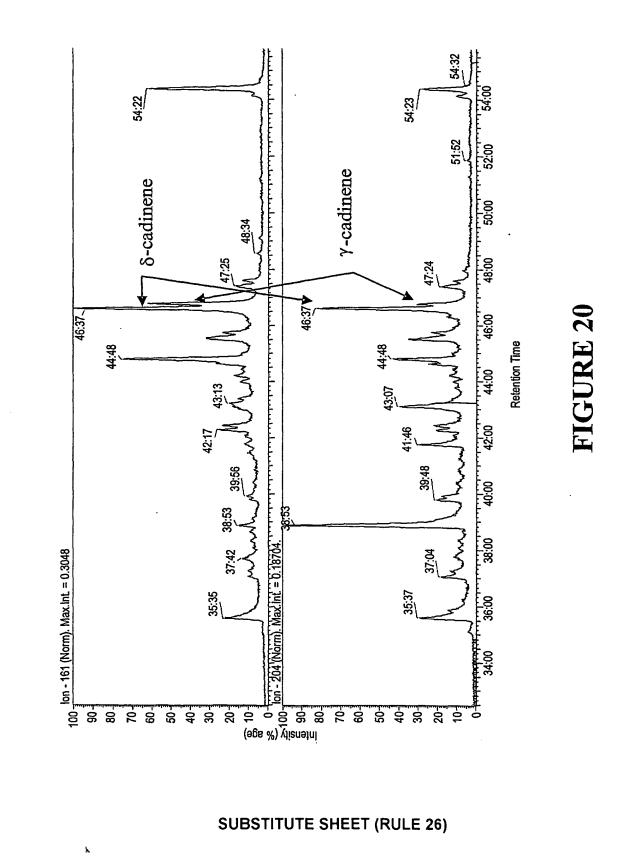


FIGURE 19



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